

Studies in Fuzziness and Soft Computing

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Fuzzy Portfolio Optimization

Advances in Hybrid Multi-criteria
Methodologies

 Springer

Fuzzy Portfolio Optimization Advances In Hybrid Multi Criteria Methodologies Studies In Fuzziness And Soft Computing

Oscar Castillo, Patricia Melin



Fuzzy Portfolio Optimization Advances In Hybrid Multi Criteria Methodologies Studies In Fuzziness And Soft Computing:

Fuzzy Portfolio Optimization Pankaj Gupta,Mukesh Kumar Mehlawat,Masahiro Inuiguchi,Suresh Chandra,2014-03-17 This monograph presents a comprehensive study of portfolio optimization an important area of quantitative finance Considering that the information available in financial markets is incomplete and that the markets are affected by vagueness and ambiguity the monograph deals with fuzzy portfolio optimization models At first the book makes the reader familiar with basic concepts including the classical mean variance portfolio analysis Then it introduces advanced optimization techniques and applies them for the development of various multi criteria portfolio optimization models in an uncertain environment The models are developed considering both the financial and non financial criteria of investment decision making and the inputs from the investment experts The utility of these models in practice is then demonstrated using numerical illustrations based on real world data which were collected from one of the premier stock exchanges in India The book addresses both academics and professionals pursuing advanced research and or engaged in practical issues in the rapidly evolving field of portfolio optimization *Optimization and Decision Science: Operations Research, Inclusion and Equity* Paola Cappanera,Matteo Lapucci,Fabio Schoen,Marco Sciandrone,Fabio Tardella,Filippo Visintin,2023-07-15 This volume collects peer reviewed short papers presented at the Optimization and Decision Science conference ODS 2022 held in Florence Italy from August 30th to September 2nd 2022 organized by the Global Optimization Laboratory within the University of Florence and AIRO the Italian Association for Operations Research The book includes contributions in the fields of operations research optimization problem solving decision making and their applications in the most diverse domains Moreover a special focus is set on the challenging theme Operations Research inclusion and equity The work offers 30 contributions covering a wide spectrum of methodologies and applications Specifically they feature the following topics i Variational Inequalities Equilibria and Games ii Optimization and Machine Learning iii Global Optimization iv Optimization under Uncertainty v Combinatorial Optimization vi Transportation and Mobility vii Health Care Management and viii Applications This book is primarily addressed to researchers and PhD students of the operations research community However due to its interdisciplinary content it will be of high interest for other closely related research communities *Recent Advances in Theory and Methods for the Analysis of High Dimensional and High Frequency Financial Data* Norman R. Swanson,Xiye Yang,2021-08-31 Recently considerable attention has been placed on the development and application of tools useful for the analysis of the high dimensional and or high frequency datasets that now dominate the landscape The purpose of this Special Issue is to collect both methodological and empirical papers that develop and utilize state of the art econometric techniques for the analysis of such data **Neutrosophic Sets and Systems, vol. 50/2022** Florentin Smarandache,Mohamed Abdel-Basset,Said Broumi,2022-06-01 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy

neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel s dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well Neutrosophic Set and Neutrosophic Logic are generalizations of the fuzzy set and respectively fuzzy logic especially of intuitionistic fuzzy set and respectively intuitionistic fuzzy logic **Effective Investments on Capital Markets** Waldemar Tarczyński,Kesra Nermend,2019-07-17 This proceedings volume presents current research and innovative solutions into capital markets particularly in Poland Featuring contributions presented at the 10th Capital Market Effective Investments CMEI 2018 conference held in Mi dzyzdroje Poland this book explores the future of capital markets in Poland as well as comparing it with the capital markets of other developed regions around the world Divided into four parts the enclosed papers provide a background into the theoretical foundations of capital market investments explores different approaches both classical and contemporary to investment decision making analyzes the behaviors of investors using experimental economics and behavioral finance and explores practical issues related to financial market investments including real case studies In addition each part of the book begins with an introductory chapter written by thematic editors that provides an outline of the subject area and a summary of the papers presented **Complex Systems: Solutions and Challenges in Economics, Management and Engineering** Christian Berger-Vachon,Anna María Gil Lafuente,Janusz Kacprzyk,Yuriy Kondratenko,José M. Merigó,Carlo Francesco Morabito,2017-10-31 This book presents an authoritative collection of contributions reporting on fuzzy logic and decision theory together with applications and case studies in economics and management science Dedicated to Professor Jaume Gil Aluja in recognition of his pioneering work the book reports on theories methods and new challenges thus offering not only a timely reference guide but also a source of new ideas and inspirations for graduate students and researchers alike **Soft Computing Based Optimization and Decision Models** David A. Pelta,Carlos Cruz Corona,2017-08-03 This book offers a timely snapshot of current soft computing research and solutions to decision making and optimization problems which are ubiquitous in the current social and technological context addressing fields including logistics transportation and data analysis Written by leading international experts from the United States Brazil and Cuba as well as the United Kingdom France Finland and Spain it discusses theoretical developments in and practical applications of soft computing in fields where these methods are

crucial to obtaining better models including intelligent transportation systems maritime logistics portfolio selection decision making fuzzy cognitive maps and fault detection The book is dedicated to Professor Jos L Verdegay a pioneer who has been actively pursuing research in fuzzy sets theory and soft computing since 1982 in honor of his 65th birthday **Fuzzy Portfolio Optimization** Yong Fang, Kin Keung Lai, Shouyang Wang, 2008-09-20 Most of the existing portfolio selection models are based on the probability theory Though they often deal with the uncertainty via probabilistic approaches we have to mention that the probabilistic approaches only partly capture the reality Some other techniques have also been applied to handle the uncertainty of the financial markets for instance the fuzzy set theory Zadeh 1965 In reality many events with fuzziness are characterized by probabilistic approaches although they are not random events The fuzzy set theory has been widely used to solve many practical problems including financial risk management By using fuzzy mathematical approaches quantitative analysis qualitative analysis the experts knowledge and the investors subjective opinions can be better integrated into a portfolio selection model The contents of this book mainly comprise of the authors research results for fuzzy portfolio selection problems in recent years In addition in the book the authors will also introduce some other important progress in the field of fuzzy portfolio optimization Some fundamental issues and problems of portfolio selection have been studied systematically and extensively by the authors to apply fuzzy systems theory and optimization methods A new framework for investment analysis is presented in this book A series of portfolio selection models are given and some of them might be more efficient for practical applications Some application examples are given to illustrate these models by using real data from the Chinese securities markets **Fuzzy Optimization** Weldon A. Lodwick, JANUSZ KACPRZYK, 2010-07-23 Optimization is an extremely important area in science and technology which provides powerful and useful tools and techniques for the formulation and solution of a multitude of problems in which we wish or need to find a best possible option or solution The volume is divided into a couple of parts which present various aspects of fuzzy optimization some related more general issues and applications Fuzzy Multi-Criteria Decision Making Cengiz Kahraman, 2008-08-09 In trying to make a satisfactory decision when imprecise and multicriteria situations are involved a decision maker has to use a fuzzy multicriteria decision making method Fuzzy Multi Criteria Decision Making MCDM presents fuzzy multiattribute and multiobjective decision making methodologies by distinguished MCDM researchers In summarizing the concepts and results of the most popular fuzzy multicriteria methods using numerical examples this work examines all the fuzzy multicriteria methods recently developed such as fuzzy AHP fuzzy TOPSIS interactive fuzzy multiobjective stochastic linear programming fuzzy multiobjective dynamic programming grey fuzzy multiobjective optimization fuzzy multiobjective geometric programming and more Each of the 22 chapters includes practical applications along with new developments results This book may be used as a textbook in graduate operations research industrial engineering and economics courses It will also be an excellent resource providing new suggestions and directions for further

research for computer programmers mathematicians and scientists in a variety of disciplines where multicriteria decision making is needed *Recent Developments in Fuzzy Logic and Fuzzy Sets* Shahnaz N. Shahbazova, Michio Sugeno, Janusz Kacprzyk, 2020-03-05 This book provides a timely and comprehensive overview of current theories and methods in fuzzy logic as well as relevant applications in a variety of fields of science and technology Dedicated to Lotfi A Zadeh on his one year death anniversary the book goes beyond a pure commemorative text Yet it offers a fresh perspective on a number of relevant topics such as computing with words theory of perceptions possibility theory and decision making in a fuzzy environment Written by Zadeh s closest colleagues and friends the different chapters are intended both as a timely reference guide and a source of inspiration for scientists developers and researchers who have been dealing with fuzzy sets or would like to learn more about their potential for their future research **Applied Decision Support with Soft Computing** Xinghuo

Yu, 2012-12-06 Soft computing has provided sophisticated methodologies for the development of intelligent decision support systems Fast advances in soft computing technologies such as fuzzy logic and systems artificial neural networks and evolutionary computation have made available powerful problem representation and modelling paradigms and learning and optimisation mechanisms for addressing modern decision making issues This book provides a comprehensive coverage of up to date conceptual frameworks in broadly perceived decision support systems and successful applications Different from other existing books this volume predominately focuses on applied decision support with soft computing Areas covered include planning management finance and administration in both the private and public sectors Recent Advances in Interval Type-2 Fuzzy Systems Oscar Castillo, Patricia Melin, 2012-04-23 This book reviews current state of the art methods for building intelligent systems using type 2 fuzzy logic and bio inspired optimization techniques Combining type 2 fuzzy logic with optimization algorithms powerful hybrid intelligent systems have been built using the advantages that each technique offers This book is intended to be a reference for scientists and engineers interested in applying type 2 fuzzy logic for solving problems in pattern recognition intelligent control intelligent manufacturing robotics and automation This book can also be used as a reference for graduate courses like the following soft computing intelligent pattern recognition computer vision applied artificial intelligence and similar ones We consider that this book can also be used to get novel ideas for new lines of research or to continue the lines of research proposed by the authors **Fuzzy Optimization** Miguel Delgado, 1994

Applications of Fuzzy Optimization and Fuzzy Decision Making Vassilis C Gerogiannis, 2021-10-26 The aim of the Special Issue Applications of Fuzzy Optimization and Fuzzy Decision Making is to expand the applicability of fuzzy optimization and decision making for solving various types of problems in the areas of economics business engineering management operations research etc Any experimental research or empirical study of theoretical developments in fuzzy optimization and decision making is highly welcome Additionally research papers presenting solution methods and or studying their computational complexity and proposing new algorithms to solve fuzzy optimization and decision making problems in an

effective and efficient manner are also welcome We are looking forward to receive innovative approaches that apply in practical settings state of the art mathematical algorithmic techniques from fuzzy technology computational intelligence and soft computing methodologies with the aim to offer robust solutions for complex optimization and decision making problems characterized by non probabilistic uncertainty vagueness ambiguity and hesitation Such type of papers will address the suitability validity and advantages of using fuzzy technologies and the enhancement of them using intelligent methods to treat real life problems from various disciplines

Real Life Applications of Multiple Criteria Decision Making Techniques in Fuzzy Domain Laxminarayan Sahoo,Tapan Senapati,Ronald R. Yager,2022-12-01 This edited book discusses creative and recent developments of fuzzy systems and its real life applications of multiple criteria decision making Keeping on the existing fuzzy sets and recent developed fuzzy sets viz intuitionistic fuzzy Pythagorean fuzzy Fermatean fuzzy Hesitant fuzzy and multiple criteria decision approaches this book is committed to probing the soft computing techniques and fuzzy multiple criteria decision making in favour of fuzzy intelligent system and business analytics It also addresses novel development of fuzzy set theory as well as real life applications of fuzzy systems It presents challenging and useful real world applications based on problems of decision making in various fields The modelling and solution procedures of such real world problems will be provided concisely although all topics start with a more developed resolution The contributory chapters will be based on the vast research experiences of the authors in real world decision making problems This book provides readers with a valuable conspectus of several decision making problems as a reference for researchers and industrial practitioners in this field This book will broadly cover recent development of fuzzy systems and its applications of multiple criteria decision making in the areas of management and production manufacturing management selections problems group decision making transportation and logistics inventory control systems and interval technique fuzzy technique uncertainty of the above mentioned areas

Uncertainty Management with Fuzzy and Rough Sets Rafael Bello,Rafael Falcon,José Luis Verdegay,2019-02-21 This book offers a timely overview of fuzzy and rough set theories and methods Based on selected contributions presented at the International Symposium on Fuzzy and Rough Sets ISFUROS 2017 held in Varadero Cuba on October 24 26 2017 the book also covers related approaches such as hybrid rough fuzzy sets and hybrid fuzzy rough sets and granular computing as well as a number of applications from big data analytics to business intelligence security robotics logistics wireless sensor networks and many more It is intended as a source of inspiration for PhD students and researchers in the field fostering not only new ideas but also collaboration between young researchers and institutions and established ones

Fuzzy Stochastic Optimization Shuming Wang,Junzo Watada,2012-03-20 In 2014 winner of Outstanding Book Award by The Japan Society for Fuzzy Theory and Intelligent Informatics Covering in detail both theoretical and practical perspectives this book is a self contained and systematic depiction of current fuzzy stochastic optimization that deploys the fuzzy random variable as a core mathematical tool to model the integrated fuzzy random uncertainty It proceeds in an

orderly fashion from the requisite theoretical aspects of the fuzzy random variable to fuzzy stochastic optimization models and their real life case studies The volume reflects the fact that randomness and fuzziness or vagueness are two major sources of uncertainty in the real world with significant implications in a number of settings In industrial engineering management and economics the chances are high that decision makers will be confronted with information that is simultaneously probabilistically uncertain and fuzzily imprecise and optimization in the form of a decision must be made in an environment that is doubly uncertain characterized by a co occurrence of randomness and fuzziness This book begins by outlining the history and development of the fuzzy random variable before detailing numerous optimization models and applications that include the design of system controls for a dam

Pairwise Comparison Matrices and their Fuzzy

Extension Jana Krejčí, 2019-02-08 This book offers the first comprehensive and critical literature review of fuzzy pairwise comparison methods derived from methods originally developed for crisp pairwise comparison matrices It proposes new fuzzy extensions of these methods and provides a detailed study of the differences and analogies between all the reviewed methods as well as a detailed description of their drawbacks with the help of many numerical examples In order to prevent the drawbacks related to the reviewed fuzzy pairwise comparison methods the book introduces constrained fuzzy arithmetic in fuzzy extension of the pairwise comparison methods It proposes new fuzzy pairwise comparison methods based on constrained fuzzy arithmetic and critically compares them with the reviewed methods It describes the application of the newly developed methods to incomplete large dimensional pairwise comparison matrices showcased in a real life case study Written for researchers graduate and PhD students interested in multi criteria decision making methods based on both crisp and fuzzy pairwise comparison matrices this self contained book offers an overview of cutting edge research and all necessary information to understand the described tools and use them in real world applications

Enric Trillas: A Passion for Fuzzy Sets Luis Magdalena, Jose Luis Verdegay, Francesc Esteva, 2015-03-30 Preliminary The book is a comprehensive collection of the most recent and significant research and applications in the field of fuzzy logic It covers fuzzy structures systems rules operations as well as important applications e g in decision making environmental prediction and prevention and communication It is dedicated to Enric Trillas as an acknowledgement for his pioneering research in the field The book include a foreword by Lotfi A Zadeh

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